

## INFORMATION DISCLOSURE STATEMENT

Atty.  
Dkt. No.

Applicant: HONG, et al.

Appl. No.: 09/878,131

Filing Date: 6-8-01

Examiner: Unknown

Global Art Unit: 3101

Date: 8-29-01

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of

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## U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
SPC	AR	5,747,298	05/1998	HONG et al.			
SPC	BR	5,614,365	03/1997	TABOR et al.			
	CR						
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## FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
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	VR							<input type="checkbox"/>	<input type="checkbox"/>

## OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

SPC	WR	Joyce, et al., "Function and Structure Relationships in DNA Polymerases", Annu. Rev. Biochem. 1994, Vol. 63, Pages 777-822.			
	XR	Mead et al., "Bst DNA Polymerase Permits Rapid Sequence Analysis from Nanogram Amounts of Template", Research Report, BioTechniques, Vol. 11, No. 1 (1991), pp. 76-84			
	YR	McClary, et al., "Sequencing with the large fragment . . . stearothermophilus", DNA Sequence-J. DNA Sequencing and Mapping, Vol. 1, (1991) pp. 173-180			
	ABR	Epicentre Technologies, "What's New in this Catalog?" DNA Polymerase (. . . fragment), 1994/95 Products for Molecular & Cellular Biology, p.1.			
	ACR	Jacobs et al., "The N-Terminal Amino-Acid Sequences of DNA Polymerase I from Escherichia coli and of the Large and the Small Fragments Obtained by a Limited Proteolysis", Eur. J. Biochem. 45 (1974), pp. 623-627			
	ADR	John Wiley & Sons, Inc., Current Protocols in Molecular Biology, DNA Sequencing, Vol. 1, 1994, pp. 7.4.31-7.4.33			

Examiner

Ruben Chandra

Date Considered:

10/10/03

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Group

O. Client Ref.

AUG 30 2001

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Date: 8-29-01

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## U.S. PATENT DOCUMENTS

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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

VR	Sanger et al., "DNA sequencing with chain-terminating inhibitors", Biochemistry: Proc. Natl. Acad. Sci. USA 74, No. 12, (1977), pp. 5463-5467			
WR	Shengyu et al., "Heat-stable DNA Polymerase I Large Fragment Resolves Hairpin Structure in DNA Sequencing, Scientia Sinica (Series B), Vol. XXX, No. 5, May 1987, pp. 503-506			
XR	Okazaki et al., "Enzymatic Synthesis of Deoxyribonucleic Acid", The Journal of Biological Chemistry, Vol. 239, No. 1, Jan. 1964, pp. 259-268			
ABR	Kaboev, et al., "Purification and Properties of Deoxyribonucleic Acid Polymerase from Bacillus stearothermophilus", Journal of Bacteriology, Vol. 145, No. 1, Jan. 1981, pp. 21-26			
ACR	Catalogue of Bacteria and Phages, American Type Culture Collection, Eighteenth edition, 1992, p.51			
ADR	Riggs et al., "Construction of single amino acid substitution mutants of cloned Bacillus stearothermophilus DNA polymerase I which lacks 5'-3' exonuclease activity, "Biochimica et Biophysica Acta 1307 (1996), pp. 178-186			

Examiner

Rutha Chenduru

Date Considered: 10/10/03

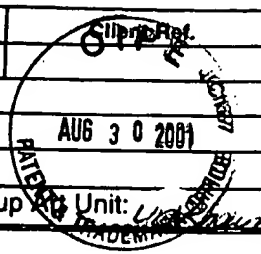
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

To: U.S. Department of Commerce  
Patent and Trademark Office

Atty. Dkt. No.	62113
Applicant:	HONG, et al.
Appln. No.:	09/878,131
Filing Date:	6-8-01
Examiner:	Unknown
Group:	Unit:

INFORMATION DISCLOSURE STATEMENT

Date: 8-29-01 Page 3 of



U.S. PATENT DOCUMENTS

Inventor's Surname*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
AR						
BR						
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DR						
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FR						
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FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract	Translation Readily Available
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PR						<input type="checkbox"/>	<input type="checkbox"/>
QR						<input type="checkbox"/>	<input type="checkbox"/>
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

WR	Aliotta et al., "Thermostable Bst DNA polymerase I lacks a 3'-5' proofreading exonuclease activity", Genetic Analysis Biomolecular Engineering, 12 (1996), pp. 185-195
XR	John Wiley & Sons, Inc., Current Protocols In Molecular Biology, DNA Sequencing, Vol. 1, (1994), 7.4.17-7.4.24.
YR	Earley, et al., "Robotic Automation of Dideoxyribonucleotide Sequencing Reactions", Research Reports, BioTechniques, Vol. 17, No. 1 (1994) 156-165.
ABR	Mardis et al., "Automated Methods for Single-Stranded DNA Isolation and Dideoxynucleotide DNA Sequencing Reactions on a Robotic Workstation", Research Report, BioTechniques, Vol. 7, No. 8 (1989) pp. 840-850.
ACR	BIO RAD, US Bulletin 1649, Pre-mixed Nucleotide Sequencing Kits for Bst DNA Polymerase, 1996, p.176-178
ADR	Carroll et al., "A Mutant of DNA Polymerase I (Klenau Fragment) with Reduced Fidelity", Biochemistry, Vol. 30, No. 3, 1991, pp. 804-813.

Inventor: Brahma Chunduru

Date Considered: 10/10/03

FORM PTO-1449

To: U.S. Department of Commerce  
Patent and Trademark Office

Atty. Dkt. No. Lee 113

Applicant: HONG, et al.

Appln. No.: 09/878131

Filing Date: 6-8-01

Examiner: Unknown

Group A: 10/10/03

Patent & Trademark Office

Aug 30 2001

Information Disclosure Statement

Date: 8-29-01

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U.S. PATENT DOCUMENTS							
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)											
WR	BIO RAD, U.S Bulletin 1771, Fluorescent-labeled DNA Sequencing Reactions Using Bst Polymerase 1996, pp. 1-4										
XR	PROMEGA TECHNICAL BULLETIN, "SEQUENCE OF pGEM3z(+) VECTOR", Revised 2/95, pp.5-6										
YR	Chisoe, "Strategies for Rapid and Accurate DNA Sequencing", Methods: A Companion to Methods in Enzymology, Vol. 3, No. 1, (August, 1991) pp. 55-65.										
ABR	Kunkel, "Rapid and Efficient Site-Specific Mutagenesis without Phenotypic selection" Methods in Enzym., Vol. 154 (1987), pp. 367-383.										
ACR											
ADR											

aminer Brian Chen

Date Considered: 10/10/03

AMINER: Initial if citation considered, whether or not citation is in conformance with MPEP '609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Docket Number (Optional)  
**Lee113**

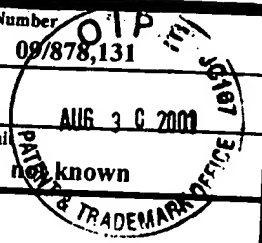
Application Number  
**09/878,131**

Applicant(s)  
**Hong et al.**

Filing Date  
**6/8/01**

Group Art Unit  
**not known**

**AUG 30 2001**



**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SPC</i>		6,165,765	12/26/00	Hong et al.	435	194	9/21/98
<i>SPC</i>		5,834,253	11/10/98	Hong et al.	435	1.1	5/3/96

**FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<i>SPC</i>	WO 98/40496	9/17/98	International application	C12N	9/12		
<i>SPC</i>	WP 99/10366	3/4/99	International application	C07H	21/04		

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

American Type Culture Collection, Catalogue of Bacteria and Phages, 18th Edition, 1992, cover page and page 51.

<i>SPC</i>		

EXAMINER *Brubaker Chenshine* DATE CONSIDERED *10/10/03*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.